State Maps and Prescriptive Packages

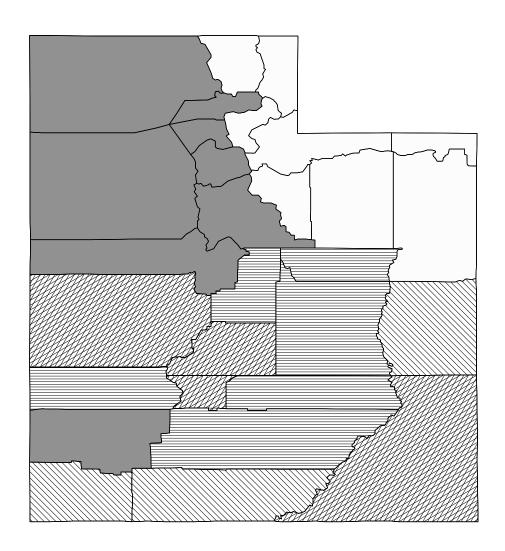
April 2000

The State Maps and Prescriptive Packages contain supporting materials that are needed when using the Envelope and Mechanical Compliance Guides. Insulation and other building envelope requirements and some mechanical system requirements vary by climate. The State Maps divide the United States into 33 different climate zones at a county level. Zones are numbered from 1 through 19 (consistent with the IECC and MEC*check* climate zones) and have a, b, and c designations to reflect climate differences that affect cooling; e.g., cooling degree days and solar radiation. The climate maps are unchanged from Version 1.

To determine the climate zone to use with your building, locate the map for your state and identify the zone number from the legend or county list.

To determine insulation and other building envelope requirements, find the prescriptive package number corresponding to your climate zone. The *Envelope Compliance Guide* employs a package approach that requires all components in your design to meet or exceed the prescribed efficiency levels contained in the prescriptive package. If you find the prescriptive packages too constraining, consider using the COM *check-EZ* software, which allows tradeoffs among building envelope components.

UTAH



Zone County

14B Beaver
12B Box Elder
15 Cache
14B Carbon
15 Daggett
12B Davis
15 Duchesne
14B Emery
14B Garfield

10B Grand

12B Iron 12B Juab

10B Kane 13B Millard 15 Morgan 13B Piute

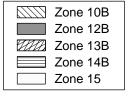
15 Rich 12B Salt Lake

12B Salt Lake 13B San Juan 14B Sanpete 13B Sevier 15 Summit 12B Tooele

15 Uintah

12B Utah 15 Wasatch

10B Washington 14B Wayne 12B Weber



Climate Zone 10b

| Envelope Component | | Fenestration | | | ım Fenestratio 25% Window-Wal | | | Fenestration | | Very High Fenestration Area (40%-50% Window-Wall Ratio) | | | |
|--|--------------------------|--------------------|---------------------------|--------------------------|----------------------------------|---------------------------|--------------------------|--------------|---------------------------|--|------------|---------------------------|--|
| | No | Metal | Wood | No | Metal | Wood | No | Metal | Wood | No | Metal | Wood | |
| Walls (a) | Framing of | | or Framing | | • | or Framing | | ū | or Framing | Framing | • | or Framing | |
| Framed Minimum R-Value Any Spacing | NA | 11 | 11 | NA | 11 | 11 | NA | 11 | 11 | NA | 11 | 11 | |
| CMU, 8 in. or greater Minimum R-Value | 5 | 11 | 11 | 5 | 11 | 11 | 5 | 11 | 11 | 5 | 11 | 11 | |
| with Integral Insulation(b) | | | | | | | | | | | | | |
| All Other Minimum R-Value Masonry Walls(c) | 5 | 11 | 11 | 5 | 11 | 11 | 5 | 11 | 11 | 5 | 11 | 11 | |
| Masoniy Wans(c) | | | | | | | | | | | | | |
| Maria Assess | No | 3.25 Projection | 3.5 | No | 3.25 Projection | 3.5 | No | 3.25 | 3.5 | No Projection | 3.25 | 3.5 | |
| Windows Maximum Solar Heat Gain Coefficient | Projection | Projection | Projection | Projection | Projection | Projection | Projection | Projection | Projection | Projection | Projection | Projection | |
| Maximum Solar Heat Gain Coemicient | Any | Any | Any | 0.5 | 0.6 | 0.7 | 0.4 | 0.5 | 0.6 | 0.3 | 0.4 | 0.5 | |
| Maximum U-Factor | | - | - | | | | | | | | | | |
| | Any | Any | Any | 0.6 | 0.6 | 0.6 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | |
| | | | | | | | | | | | | | |
| Skylight (Limit 3% of Roof Area) | | | | | | | | | | | | | |
| Maximum U-Factor | | 0.8 | | | 0.8 | | | 0.8 | | | 0.8 | | |
| | | | | | | | | | | | | | |
| Roof | Continuous Insulation | or | Roof Cavity Insulation | Continuous Insulation | or | Roof Cavity Insulation | Continuous Insulation | or | Roof Cavity Insulation | Continuous Insulation | or | Roof Cavity Insulation | |
| All-Wood Joist/Truss | Ilisulation | UI | msulation | insulation | OI . | Ilisulation | insulation | OI . | insulation | ilisulation | OI . | Ilisulation | |
| Minimum R-Value | 17 | | 19 | 19 | | 25 | 19 | | 25 | 19 | | 25 | |
| Nonwood Joist/Truss | | | | | | | | | | | | | |
| Minimum R-Value Concrete Slab or Deck | 18 | | 25 | 20 | | 25 | 20 | | 25 | 20 | | 25 | |
| Minimum R-Value | 17 | | NA | 19 | | NA | 19 | | NA | 19 | | NA | |
| Metal Purlin with Thermal Break | | | | | | | | | | | | | |
| Minimum R-Value Metal Purlin without Thermal Break | 18 | | 30 | 20 | | 30 | 20 | | 30 | 20 | | 30 | |
| Minimum R-Value | 18 | | x | 20 | | х | 20 | | х | 20 | | 30 | |
| | Continuous | | Cavity | Continuous | | Cavity | Continuous | | Cavity | Continuous | | Cavity | |
| Floor | Insulation | or | Insulation | Insulation | or | Insulation | Insulation | or | Insulation | Insulation | or | Insulation | |
| All-Wood Joist/Truss | | | | | | | | | | | | | |
| Minimum R-Value | 12 | | 19 | 12 | | 19 | 12 | | 19 | 12 | | 19 | |
| Nonwood Joist/Truss Minimum R-Value | 13 | | 19 | 13 | | 19 | 13 | | 19 | 13 | | 19 | |
| Concrete Slab or Deck | | | - | 10 | | 10 | | | - | 10 | | 10 | |
| Minimum R-Value | 13 | | NA | 13 | | NA | 13 | | NA | 13 | | NA | |
| | | | | | | | | | | | | | |
| Slab Edge or Basement Walls | | Insulation | | | Insulation | | | Insulation | | | Insulation | | |
| Minimum R-Value | | 0 | | | 0 | | | 0 | | | 0 | | |

- (a) For walls next to unconditioned spaces, use the Low Fenestration Area wall requirements.
- (b) Integral insulation in concrete masonry units may be perlite, vermiculite, or other insulating material. Minimum R-values are in addition to insulation in CMU voids.
- (c) Use of the Other Masonry Walls category is restricted to walls weighing 35 lb/ft2 or more; lightweight masonry veneers and unfilled CMUs <8 in. in thickness do not qualify.

- "NA" indicates the category is not applicable.
- A minimum R-value of zero indicates no insulation is required.
- "Any" indicates any available product will comply.
- "X" indicates no complying option exists in the prescriptive packages.

Climate Zone 12b

| Envelope Component | | Fenestration % Window-Wall | | | ım Fenestratio 25% Window-Wal | | | Fenestration | | Very High Fenestration Area (40%-50% Window-Wall Ratio) | | | |
|--|------------------|-------------------------------|-------------------|------------------|----------------------------------|-------------------|------------------|--------------------|-------------------|--|--------------------|-------------------|--|
| | No | Metal | Wood | No | Metal | Wood | No | Metal | Wood | No | Metal | Wood | |
| Walls (a,b) | Framing o | | or Framing | | J | or Framing | Framing o | - | or Framing | Framing | • | or Framing | |
| Framed Minimum Cavity R-Value (c) | NA | 11 | 11 | NA | 11 | 11 | NA | 11 | 11 | NA | 13 | 13 | |
| Any Spacing Minimum Continuous R-Value (d) CMU, 8 in. or greater Minimum Cavity R-Value | NA NA | 0 11 | 0 11 | NA NA | 0 11 | 0 11 | NA NA | 0 11 | 0 11 | NA NA | 3 11 | 0 11 | |
| with Integral Insulation(e) Minimum Continuous R-Value | 5 | 0 | 0 | 5 | 0 | 0 | 5 NA | 0 | 0 | 5 5 | 0 | 0 | |
| All Other Minimum Cavity R-Value | NA NA | 11 | 11 | NA NA | 11 | 11 | NA NA | 11 | 11 | NA NA | 11 | 11 | |
| Masonry Walls(f) Minimum Continuous R-Value | 5 | 0 | 0 | 5 | 0 | 0 | 5 | 0 | 0 | 5 | 0 | 0 | |
| | No Projection | 3.25 Projection | 3.5 Deciration | No Projection | 3.25 Projection | 3.5 Projection | No Projection | 3.25 Projection | 3.5 Projection | No Projection | 3.25 Projection | 3.5 Deciseosis | |
| Windows Maximum Solar Heat Gain Coefficient | Projection | Projection | Projection | Projection | Projection | Projection | Projection | Projection | Projection | Projection | Projection | Projection | |
| | Any | Any | Any | 0.5 | 0.6 | 0.7 | 0.4 | 0.5 | 0.6 | 0.3 | 0.4 | 0.5 | |
| Maximum U-Factor | Any | Any | Any | 0.6 | 0.6 | 0.6 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | |
| Skylight (Limit 3% of Roof Area) | | | | | | | | | | | | | |
| Maximum U-Factor | | 0.8 | | | 0.8 | | | 0.8 | | | 0.8 | | |
| | Continuous | | Roof Cavity | Continuous | | Roof Cavity | Continuous | | Roof Cavity | Continuous | | Roof Cavity | |
| Roof | Insulation | or | Insulation | Insulation | or | Insulation | Insulation | or | Insulation | Insulation | or | Insulation | |
| All-Wood Joist/Truss Minimum R-Value | 16 | | 19 | 19 | | 25 | 23 | | 30 | 23 | | 30 | |
| Nonwood Joist/Truss | | | | | | | | | | | | | |
| Minimum R-Value Concrete Slab or Deck | 17 | | 25 | 20 | | 25 | 24 | | 30 | 24 | | 30 | |
| Minimum R-Value | 16 | | NA | 19 | | NA | 23 | | NA | 23 | | NA | |
| Metal Purlin with Thermal Break | | | | | | | | | | | | | |
| Minimum R-Value | 17 | | 25 | 20 | | 30 | 24 | | х | 24 | | 38 | |
| Metal Purlin without Thermal Break Minimum R-Value | 17 | | х | 20 | | х | 24 | | х | 24 | | 49 | |
| | Continuous | | Cavity | Continuous | | Cavity | Continuous | | Cavity | Continuous | | Cavity | |
| Floor | Insulation | or | Insulation | Insulation | or | Insulation | Insulation | or | Insulation | Insulation | or | Insulation | |
| All-Wood Joist/Truss Minimum R-Value | 15 | | 19 | 15 | | 19 | 15 | | 19 | 15 | | 19 | |
| Nonwood Joist/Truss Minimum R-Value | 16 | | 19 | 16 | | 19 | 16 | | 19 | 16 | | 19 | |
| Concrete Slab or Deck | | | - | - | | - | - | | - | | | - | |
| Minimum R-Value | 16 | | NA | 16 | | NA | 16 | | NA | 16 | | NA | |
| Slab Edge or Basement Walls | | Insulation | | | Insulation | | | Insulation | | | Insulation | | |
| Minimum R-Value | | 0 | | | 0 | | | 8 | | | 8 | | |

- (a) For walls next to unconditioned spaces, use the Low Fenestration Area wall requirements.
- (b) Where values are shown for both cavity and continuous insulation, both requirements must be met.
- (c) Cavity insulation is insulation between framing members or furring strips and does not refer to integral insulation in CMUs.
- (d) Continuous insulation is insulation that is continuous across structural members, and its effectiveness is undimished by compression or bridging.
- (e) Integral insulation in concrete masonry units may be perlite, vermiculite, or other insulating material. Minimum R-values are in addition to insulation in CMU voids.
- (f) Use of the Other Masonry Walls category is restricted to walls weighing 35 lb/ft2 or more; lightweight masonry veneers and unfilled CMUs <8 in. in thickness do not qualify.</p>
- "NA" indicates the category is not applicable.
- A minimum R-value of zero indicates no insulation is required.
- "Any" indicates any available product will comply.
- "X" indicates no complying option exists in the prescriptive packages.

Climate Zone 13b

| Envelope Component | | Fenestration 6 Window-Wall | | | ım Fenestratio 25% Window-Wal | | | Fenestration | | Very High Fenestration Area (40%-50% Window-Wall Ratio) | | | |
|--|------------------|-------------------------------|-------------------|------------------|----------------------------------|-------------------|------------------|--------------------|-------------------|--|--------------------|-------------------|--|
| | No | Metal | Wood | No | Metal | Wood | No | Metal | Wood | No | Metal | Wood | |
| Walls (a,b) | Framing o | | or Framing | | | or Framing | Framing or | • | or Framing | Framing | • | or Framing | |
| Framed Minimum Cavity R-Value (c) | NA | 13 | 11 | NA | 13 | 11 | NA | 13 | 11 | NA | 13 | 13 | |
| Any Spacing Minimum Continuous R-Value (d) CMU, 8 in. or greater Minimum Cavity R-Value | NA NA | 0 11 | 0 11 | NA NA | 0 11 | 0 11 | NA NA | 0 11 | 0 11 | NA NA | 7 11 | 3 11 | |
| with Integral Insulation(e) Minimum Continuous R-Value | 5 | 0 | 0 | 5 | 0 | 0 | 5 NA | 0 | 0 | 5 5 | 0 | 0 | |
| All Other Minimum Cavity R-Value | NA NA | 11 | 11 | NA NA | 11 | 11 | NA NA | 11 | 11 | NA NA | 11 | 11 | |
| Masonry Walls(f) Minimum Continuous R-Value | 5 | 0 | 0 | 5 | 0 | 0 | 5 | 0 | 0 | 5 | 0 | 0 | |
| Mindows | No Projection | 3.25 Projection | 3.5 Projection | No Projection | 3.25 Projection | 3.5 Projection | No Projection | 3.25 Projection | 3.5 Projection | No Projection | 3.25 Projection | 3.5 Projection | |
| Windows Maximum Solar Heat Gain Coefficient | Projection | Frojection | Frojection | Frojection | Frojection | Frojection | Frojection | Frojection | Frojection | Frojection | Frojection | Frojection | |
| Maximum U-Factor | Any | Any | Any | 0.5 | 0.6 | 0.7 | 0.4 | 0.5 | 0.6 | 0.4 | 0.5 | 0.6 | |
| iviaxiillulli O-Factor | Any | Any | Any | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.4 | 0.4 | 0.4 | |
| Skylight (Limit 3% of Roof Area) | | | | | | | | | | | | | |
| Maximum U-Factor | | 0.8 | | | 0.8 | | | 0.8 | | | 0.8 | | |
| | Continuous | | Roof Cavity | Continuous | | Roof Cavity | Continuous | | Roof Cavity | Continuous | | Roof Cavity | |
| Roof | Insulation | or | Insulation | Insulation | or | Insulation | Insulation | or | Insulation | Insulation | or | Insulation | |
| All-Wood Joist/Truss Minimum R-Value | 18 | | 25 | 19 | | 25 | 23 | | 30 | 23 | | 30 | |
| Nonwood Joist/Truss | | | | | | 25 | | | | | | | |
| Minimum R-Value Concrete Slab or Deck | 19 | | 25 | 20 | | 25 | 24 | | 30 | 24 | | 30 | |
| Minimum R-Value | 18 | | NA | 19 | | NA | 23 | | NA | 23 | | NA | |
| Metal Purlin with Thermal Break | | | | | | | | | | | | 101 | |
| Minimum R-Value | 19 | | 30 | 20 | | 30 | 24 | | х | 24 | | 38 | |
| Metal Purlin without Thermal Break Minimum R-Value | 19 | | х | 20 | | x | 24 | | х | 24 | | 49 | |
| | Continuous | | Cavity | Continuous | | Cavity | Continuous | | Cavity | Continuous | | Cavity | |
| Floor | Insulation | or | Insulation | Insulation | or | Insulation | Insulation | or | Insulation | Insulation | or | Insulation | |
| All-Wood Joist/Truss Minimum R-Value | 17 | | 19 | 17 | | 19 | 17 | | 19 | 17 | | 19 | |
| Nonwood Joist/Truss Minimum R-Value | 17 | | 25 | 17 | | 25 | 17 | | 25 | 17 | | 25 | |
| Concrete Slab or Deck | | | | | | | | | | | | | |
| Minimum R-Value | 17 | | NA | 17 | | NA | 17 | | NA | 17 | | NA | |
| Slab Edge or Basement Walls | | Insulation | | | Insulation | | | Insulation | | | Insulation | | |
| Minimum R-Value | | 0 | | | 0 | | | 8 | | | 8 | | |

- (a) For walls next to unconditioned spaces, use the Low Fenestration Area wall requirements.
- (b) Where values are shown for both cavity and continuous insulation, both requirements must be met.
- (c) Cavity insulation is insulation between framing members or furring strips and does not refer to integral insulation in CMUs.
- (d) Continuous insulation is insulation that is continuous across structural members, and its effectiveness is undimished by compression or bridging.
- (e) Integral insulation in concrete masonry units may be perlite, vermiculite, or other insulating material. Minimum R-values are in addition to insulation in CMU voids.
- (f) Use of the Other Masonry Walls category is restricted to walls weighing 35 lb/ft2 or more; lightweight masonry veneers and unfilled CMUs <8 in. in thickness do not qualify.</p>
- "NA" indicates the category is not applicable.
- A minimum R-value of zero indicates no insulation is required.
- "Any" indicates any available product will comply.
- "X" indicates no complying option exists in the prescriptive packages.

Climate Zone 14b

| Envelope Component | | Fenestration % Window-Wall | | | m Fenestratio | | | Fenestration | | Very High Fenestration Area (40%-50% Window-Wall Ratio) | | | |
|---|------------|-------------------------------|-------------|------------|---------------|------------------|------------|---------------|-------------|--|---------------|------------------|--|
| | No | Metal | Wood | No | Metal | Wood | No | Metal | Wood | No | Metal | Wood | |
| Walls (a,b) Framed Minimum Cavity R-Value (c) | Framing o | r Framing o | or Framing | Framing o | or Framing o | or Framing 11 | Framing o | or Framing of | or Framing | Framing NA | or Framing of | or Framing 13 | |
| Any Spacing Minimum Continuous R-Value (d) | NA NA | 3 | 0 | NA NA | 3 | 0 | NA NA | 3 | 0 | NA NA | 7 | 3 | |
| CMU, 8 in. or greater Minimum Cavity R-Value | NA | 11 | 11 | NA | 11 | 11 | NA | 11 | 11 | NA | 11 | 11 | |
| with Integral Insulation(e) Minimum Continuous R-Value All Other Minimum Cavity R-Value | 5 NA | 0 11 | 0 11 | 5 NA | 0 11 | 0 11 | 5 NA | 0 11 | 0 11 | 5 NA | 0 11 | 0 | |
| Masonry Walls(f) Minimum Continuous R-Value | NA 5 | 0 | 0 | NA 5 | 0 | 0 | 5 5 | 0 | 0 | 5 5 | 0 | 11 0 | |
| | No | 3.25 | 3.5 | No | 3.25 | 3.5 | No | 3.25 | 3 .5 | No | 3.25 | 3.5 | |
| Windows | Projection | Projection | Projection | Projection | Projection | Projection | Projection | Projection | Projection | Projection | Projection | Projection | |
| Maximum Solar Heat Gain Coefficient | Any | Any | Any | 0.5 | 0.6 | 0.7 | 0.4 | 0.5 | 0.6 | 0.4 | 0.5 | 0.6 | |
| Maximum U-Factor | 0.7 | 0.7 | 0.7 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.4 | 0.4 | 0.4 | |
| | | | | | | | | | | | | | |
| Skylight (Limit 3% of Roof Area) | | | | | | | | | | | | | |
| Maximum U-Factor | | 0.8 | | | 0.8 | | | 0.8 | | | 0.8 | | |
| | Continuous | | Roof Cavity | Continuous | | Roof Cavity | Continuous | | Roof Cavity | Continuous | | Roof Cavity | |
| Roof | Insulation | or | Insulation | Insulation | or | Insulation | Insulation | or | Insulation | Insulation | or | Insulation | |
| All-Wood Joist/Truss Minimum R-Value | 19 | | 25 | 19 | | 25 | 23 | | 30 | 23 | | 30 | |
| Nonwood Joist/Truss Minimum R-Value | 20 | | 25 | 20 | | 25 | 24 | | 30 | 24 | | 30 | |
| Concrete Slab or Deck Minimum R-Value | 19 | | NA | 19 | | NA | 23 | | NA | 23 | | NA | |
| Metal Purlin with Thermal Break | | | | | | •• | | | | - | | | |
| Minimum R-Value Metal Purlin without Thermal Break | 20 | | 30 | 20 | | 30 | 24 | | Х | 24 | | 38 | |
| Minimum R-Value | 20 | | Х | 20 | | Х | 24 | | Х | 24 | | 49 | |
| | Continuous | | Cavity | Continuous | | Cavity | Continuous | | Cavity | Continuous | | Cavity | |
| Floor | Insulation | or | Insulation | Insulation | or | Insulation | Insulation | or | Insulation | Insulation | or | Insulation | |
| All-Wood Joist/Truss Minimum R-Value | 19 | | 25 | 19 | | 25 | 19 | | 25 | 19 | | 25 | |
| Nonwood Joist/Truss Minimum R-Value | 19 | | 25 | 19 | | 25 | 19 | | 25 | 19 | | 25 | |
| Concrete Slab or Deck Minimum R-Value | 19 | | NA | 19 | | NA | 19 | | NA | 19 | | NA | |
| | | | | | | | | | | | | | |
| Slab Edge or Basement Walls | | Insulation | | | Insulation | | | Insulation | | | Insulation | | |
| Minimum R-Value | | 0 | | | 8 | | | 8 | | | 8 | | |

- (a) For walls next to unconditioned spaces, use the Low Fenestration Area wall requirements.
- (b) Where values are shown for both cavity and continuous insulation, both requirements must be met.
- (c) Cavity insulation is insulation between framing members or furring strips and does not refer to integral insulation in CMUs.
- (d) Continuous insulation is insulation that is continuous across structural members, and its effectiveness is undimished by compression or bridging.
- (e) Integral insulation in concrete masonry units may be perlite, vermiculite, or other insulating material. Minimum R-values are in addition to insulation in CMU voids.
- (f) Use of the Other Masonry Walls category is restricted to walls weighing 35 lb/ft2 or more; lightweight masonry veneers and unfilled CMUs <8 in. in thickness do not qualify.</p>
- "NA" indicates the category is not applicable.
- A minimum R-value of zero indicates no insulation is required.
- "Any" indicates any available product will comply.
- "X" indicates no complying option exists in the prescriptive packages.

Climate Zone 15

| Envelope Component | | Fenestration % Window-Wall | | | m Fenestratio | | | Fenestration | | Very High Fenestration Area (40%-50% Window-Wall Ratio) | | | |
|---|--------------------------|-------------------------------|----------------------|--------------------------|--------------------|----------------------|--------------------------|--------------------|----------------------|--|--------------------|----------------------|--|
| | No | Metal | Wood | No | Metal | Wood | No | Metal | Wood | No | Metal | Wood | |
| Walls (a,b) | Framing o | | or Framing | | | or Framing | Framing of | • | or Framing | Framing | • | or Framing | |
| Framed Minimum Cavity R-Value (c) | NA | 13 | 11 0 | NA | 13 | 11 | NA NA | 13 | 11 | NA | 13 | 13 | |
| Any Spacing Minimum Continuous R-Value (d) CMU, 8 in. or greater Minimum Cavity R-Value | NA NA | <u>3</u> 11 | 11 | NA NA | 3 11 | 0 11 | NA NA | 3 11 | 0 11 | NA NA | 7 13 | 4 11 | |
| with Integral Insulation(e) Minimum Continuous R-Value | 5 | 0 | 0 | 5 | 0 | 0 | 5 | 0 | 0 | 5 | 0 | 0 | |
| All Other Minimum Cavity R-Value | NA NA | 11 | 11 | NA NA | 11 | 11 | NA NA | 13 | 11 | NA | 13 | 11 | |
| Masonry Walls(f) Minimum Continuous R-Value | 5 | 0 | 0 | 5 | 0 | 0 | 6 | 0 | 0 | 6 | 3 | 0 | |
| Windows | No Projection | 3.25 Projection | 3.5 Projection | No Projection | 3.25 Projection | 3.5 Projection | No Projection | 3.25 Projection | 3.5 Projection | No Projection | 3.25 Projection | 3.5 Projection | |
| Maximum Solar Heat Gain Coefficient | | - | , | | • | | • | , | , | | • | | |
| Maximum U-Factor | Any | Any | Any | 0.5 | 0.6 | 0.7 | 0.5 | 0.6 | 0.7 | 0.4 | 0.5 | 0.7 | |
| Maximum O-Pactor | 0.7 | 0.7 | 0.7 | 0.5 | 0.5 | 0.5 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | |
| Skylight (Limit 3% of Roof Area) | | | | | | | | | | | | | |
| Maximum U-Factor | | 0.6 | | | 0.6 | | | 0.6 | | | 0.6 | | |
| | Continuous | | Roof Cavity | Continuous | | Roof Cavity | Continuous | | Roof Cavity | Continuous | | Roof Cavity | |
| Roof | Insulation | or | Insulation | Insulation | or | Insulation | Insulation | or | Insulation | Insulation | or | Insulation | |
| All-Wood Joist/Truss Minimum R-Value | 19 | | 25 | 19 | | 25 | 23 | | 30 | 23 | | 30 | |
| Nonwood Joist/Truss | | | | | | | | | | | | | |
| Minimum R-Value | 20 | | 25 | 20 | | 25 | 24 | | 30 | 24 | | 30 | |
| Concrete Slab or Deck Minimum R-Value | 19 | | NA | 19 | | NA | 23 | | NA | 23 | | NA | |
| Metal Purlin with Thermal Break | 19 | | NA NA | 19 | | NA | 23 | | NA | 23 | | NA | |
| Minimum R-Value | 20 | | 30 | 20 | | 30 | 24 | | x | 24 | | 38 | |
| Metal Purlin without Thermal Break | | | | | | | | | | | | | |
| Minimum R-Value | 20 | | Х | 20 | | Х | 24 | | Х | 24 | | NA | |
| Floor | Continuous Insulation | or | Cavity Insulation | Continuous Insulation | or | Cavity Insulation | Continuous Insulation | or | Cavity Insulation | Continuous Insulation | or | Cavity Insulation | |
| All-Wood Joist/Truss Minimum R-Value | 22 | | 25 | 22 | | 25 | 22 | | 25 | 22 | | 25 | |
| Nonwood Joist/Truss | - 22 | | 20 | - 22 | | 20 | - 22 | | 20 | | | 20 | |
| Minimum R-Value | 23 | | 30 | 23 | | 30 | 23 | | 30 | 23 | | 30 | |
| Concrete Slab or Deck Minimum R-Value | 22 | | NA | 22 | | NA | 22 | | NA | 22 | | NA | |
| Slab Edge or Basement Walls | | Insulation | | | Insulation | | | Insulation | | | Insulation | | |
| Minimum R-Value | | 0 | | | 8 | | | 8 | | | 8 | | |

- (a) For walls next to unconditioned spaces, use the Low Fenestration Area wall requirements.
- (b) Where values are shown for both cavity and continuous insulation, both requirements must be met.
- (c) Cavity insulation is insulation between framing members or furring strips and does not refer to integral insulation in CMUs.
- (d) Continuous insulation is insulation that is continuous across structural members, and its effectiveness is undimished by compression or bridging.
- (e) Integral insulation in concrete masonry units may be perlite, vermiculite, or other insulating material. Minimum R-values are in addition to insulation in CMU voids.
- (f) Use of the Other Masonry Walls category is restricted to walls weighing 35 lb/ft2 or more; lightweight masonry veneers and unfilled CMUs <8 in. in thickness do not qualify.</p>
- "NA" indicates the category is not applicable.
- A minimum R-value of zero indicates no insulation is required.
- "Any" indicates any available product will comply.
- "X" indicates no complying option exists in the prescriptive packages.